عنوان مقاله:

The Mechanical Design of Drowsiness Detection Using Color Based Features

محل انتشار:

کنفرانس ملی فن آوری، انرژی و داده با رویکرد مهندسی برق و کامپیوتر (سال: 1394)

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نویسندگان:

Ali eshagi - *Department of Mechatronics, Islamic Azad University Ahar, Iran*

Peyman jabraelzade - *Department of Mechatronics, Islamic Azad University Ahar, Iran*

Mohamad golipour - *Department of Mechatronics, Islamic Azad University Tabriz, iran*

خلاصه مقاله:

This paper demonstrates design and fabrication of a mechatronic system for human drowsiness detection. This system can be used in multiple places. For example, in factories, it is used on some dangerous machinery and in cars in order to prevent the operator or driver from falling asleep. This system is composed of three parts: (1) mechanical, (2) electrical and (3) image processing system. After processing the input image and eye position detection, the system investigates the state of the eye, and in the case of drowsiness, the system activates the alarm. It also has the ability to track the eyes.

کلمات کلیدی:

drowsiness; face detection; eye state detection; feature selection and PERCLOS

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